

In the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

1 1. (Previously Presented) A self-contained, portable music
2 player comprising:
3 a rechargeable battery pack for powering the music player;
4 an input/output device including at least a keypad for
5 receiving user inputs and a display;
6 a memory capable of storing digital music in at least one
7 compressed digital format;
8 a data processor connected to said input/output device and
9 said memory, said data processor programmed to decompress said
10 digital music into uncompressed digital music samples;
11 an audio coder-decoder connected to said data processor for
12 receiving said uncompressed digital music samples from said data
13 processor and converting said uncompressed digital music samples
14 into analog music;
15 a headset connector connected to said audio coder-decoder for
16 supplying said analog music to an external headset earphone; and
17 a base connector including
18 a power connection connected to said rechargeable battery
19 pack capable of receiving charging power from an external base
20 unit,
21 an analog output connection connected to said audio
22 coder-decoder for supplying said analog music to an external
23 base unit for amplification and reproduction via speakers, and
24 an analog input connection connected to said audio coder-
25 decoder for receiving an analog input from an external base
26 unit;
27 wherein the self-contained, portable music player operates in

28 a portable mode disconnected from a base unit and powered
29 by said rechargeable battery pack, wherein a user may listen
30 to selected digital music stored in said memory via an
31 external headset earphone, and
32 in a base mode connected to a base unit via said base
33 connector and powered via said power connector, wherein a user
34 may listen to selected digital music stored in said memory via
35 speakers of an external base unit and wherein a user may
36 listen to music received on said analog input connection of
37 said base connector.

1 2. (Original) The self-contained, portable music player of
2 claim 1, wherein:

3 said data processor is further programmed in cooperation with
4 input/output device whereby a user may enter volume control data
5 via said keypad; and

6 said base connector further includes a volume data connection
7 for transmission of volume control data from the self-contained,
8 portable music player to an external base unit.

1 3. (Original) The self-contained, portable music player of
2 claim 1, wherein:

3 said base connector further includes a set of digital
4 connections connected to said data processor and said audio coder-
5 decoder for bi-directional transmission of digital data with an
6 external base unit.

1 4. (Original) The self-contained, portable music player of
2 claim 1, further comprising:

3 an infrared transmission interface connected to said data
4 processor for bi-directional transmission of digital data with an
5 external base unit.

1 5. (Original) The self-contained, portable music player of
2 claim 1, further comprising:
3 a microphone;
4 a pre-amplifier having an input connected to said microphone
5 and an output connected to said audio coder-decoder;
6 wherein said audio coder-decoder digitizes sound received by
7 said microphone, said data processor programmed to store said
8 digitized sounds in said memory.

1 6. (Original) The self-contained, portable music player of
2 claim 5, wherein:
3 said data processor is further programmed to compress said
4 digitized sounds into a compressed digital format and store said
5 compressed digital format in said memory.

1 7. (Original) The self-contained, portable music player of
2 claim 5, wherein:
3 said data processor is further programmed to
4 recall digitized sounds stored in said memory, and
5 compress said recalled digitized sounds into a compressed
6 digital format and store said compressed digital format in
7 said memory.

1 8. (Previously Presented) The self-contained, portable music
2 player of claim 1, wherein:
3 said audio coder-decoder digitizes analog input received via
4 said analog input connection, said data processor programmed to
5 store said digitized analog input in said memory.

1 9. (Original) The self-contained, portable music player of
2 claim 8, wherein:

3 said data processor is further programmed to compress said
4 digitized analog input into a compressed digital format and store
5 said compressed digital format in said memory.

1 10. (Original) The self-contained, portable music player of
2 claim 8, wherein:

3 said data processor is further programmed to
4 recall digitized analog input stored in said memory, and
5 compress said recalled digitized analog input into a
6 compressed digital format and store said compressed digital
7 format in said memory.

1 11. (Original) The self-contained, portable music player of
2 claim 1, wherein:

3 said memory is a non-volatile memory capable of retaining data
4 in the absence of electric power.

1 12. (Original) The self-contained, portable music player of
2 claim 1, wherein:

3 said data processor is a digital signal processor.

1 13. (Previously Presented) A music system comprising:
2 a self-contained, portable music player including
3 a rechargeable battery pack for powering the music
4 player,

5 an input/output device including at least a keypad for
6 receiving user inputs and a display;

7 a memory capable of storing digital music in at least one
8 compressed digital format,

9 a data processor connected to said input/output device
10 and said memory, said data processor programmed to decompress
11 said digital music into uncompressed digital music samples,

12 an audio coder-decoder connected to said data processor
13 for receiving said uncompressed digital music samples from
14 said data processor and converting said uncompressed digital
15 music samples into analog music,
16 a headset connector connected to said audio coder-decoder
17 for supplying said analog music to an external headset
18 earphone, and
19 a first base connector including
20 a first power connection connected to said
21 rechargeable battery pack capable of receiving charging
22 power from an external base unit, and
23 a player analog output connection connected to said
24 audio coder-decoder for supplying said analog music, and
25 an analog input connection connected to said audio
26 coder-decoder for receiving an analog input; and
27 a base unit including
28 a second base connector including
29 a second power connection for connection to said
30 first power connection,
31 an analog input connection for connection to said
32 player analog output connection of said first base
33 connector,
34 a base unit analog output connection for connection
35 to said analog input connection of said first base
36 connector,
37 a power source connected to said second power connection
38 for supplying recharging power for said rechargeable battery
39 pack,
40 a pre-amplifier having an input connected to said analog
41 input connection and an output,
42 a power amplifier having an input connected to said
43 output of said pre-amplifier and an output,

44 a tuner for receiving and demodulating analog audio
45 signals, said tuner supplying said analog audio signals to
46 said base unit analog output connection, and
47 a speaker system connected to said output of said power
48 amplifier for reproducing sound corresponding to said output
49 of said power amplifier,
50 wherein the music system operates in
51 a portable mode wherein said self-contained, portable
52 music player is disconnected from said base unit and powered
53 by said rechargeable battery pack, wherein a user may listen
54 to selected digital music stored in said memory via an
55 external headset earphone, and
56 in a base mode wherein said self-contained, portable
57 music player is connected to said base unit via said first
58 base connector and said second base connector and powered from
59 said power source, wherein a user may listen to selected
60 digital music stored in said memory via speakers of an
61 external base unit and wherein a user may listen to music from
62 said tuner supplied to said analog input connection of said
63 first base connector.

1 14. (Currently Amended) The music system of claim 13,
2 wherein:
3 said data processor is further programmed in cooperation with
4 input/output device whereby a user may enter volume control data
5 via said keypad;
6 said first base connector further includes a volume data
7 output connection for transmission of volume control data from the
8 self-contained, portable music player;
9 said second base connector further includes a volume data
10 input connection for connection to said volume data output
11 connection; and

12 said pre-amplifier is further connected to said volume data
13 input connection and producing an amount of amplification
14 corresponding ~~thereto~~ to the volume control data.

1 15. (Original) The music system of claim 13, wherein:
2 said first base connector further includes a set of first
3 digital connections connected to said data processor and said audio
4 coder-decoder for bi-directional transmission of digital data with
5 an external base unit;
6 said second base connector further includes a set of second
7 digital connections for connection to said set of first digital
8 connections; and
9 said base unit further includes a disc drive connected to said
10 set of second digital connections of said second base connector
11 capable of storing and recalling digital data.

1 16. (Original) The music system of claim 13, further
2 comprising:
3 an infrared transmission interface connected to said data
4 processor for bi-directional transmission of digital data with an
5 external base unit.

1 17. (Original) The music system of claim 1, further
2 comprising:
3 a microphone;
4 a pre-amplifier having an input connected to said microphone
5 and an output connected to said audio coder-decoder;
6 wherein said audio coder-decoder digitizes sound received by
7 said microphone, said data processor programmed to store said
8 digitized sounds in said memory.

1 18. (Original) The music system of claim 17, wherein:
2 said data processor is further programmed to compress said
3 digitized sounds into a compressed digital format and store said
4 compressed digital format in said memory.

1 19. (Original) The music system of claim 17, wherein:
2 said data processor is further programmed to
3 recall digitized sounds stored in said memory, and
4 compress said recalled digitized sounds into a compressed
5 digital format and store said compressed digital format in
6 said memory.

1 20. (Previously Presented) The music system of claim 13,
2 wherein:
3 wherein said audio coder-decoder digitizes analog input
4 received via said player analog input connection, said data
5 processor programmed to store said digitized analog input in said
6 memory.

1 21. (Original) The music system of claim 20, wherein:
2 said data processor is further programmed to compress said
3 digitized analog input into a compressed digital format and store
4 said compressed digital format in said memory.

1 22. (Original) The music system of claim 20, wherein:
2 said data processor is further programmed to
3 recall digitized analog input stored in said memory, and
4 compress said recalled digitized analog input into a
5 compressed digital format and store said compressed digital
6 format in said memory.

1 23. (Original) The music system of claim 13, wherein:
2 said memory is a non-volatile memory capable of retaining data
3 in the absence of electric power.

1 24. (Original) The music system of claim 13, wherein:
2 said data processor is a digital signal processor.

1 25. (Previously Presented) A base unit for use with a self-
2 contained, portable music player comprising:
3 a tuner for receiving and demodulating analog audio signals;
4 a base connector including
5 a power connection,
6 an analog input connection for receiving an analog input,
7 a base unit analog output connection connected to said
8 tuner to output demodulated analog audio signals;
9 a power source connected to said power connection for
10 supplying recharging power for the self-contained, portable music
11 player;
12 a pre-amplifier having an input connected to said analog input
13 connection and an output,
14 a power amplifier having an input connected to said output of
15 said pre-amplifier and an output, and
16 a speaker system connected to said output of said power
17 amplifier for reproducing sound corresponding to said output of
18 said power amplifier.

1 26. (Currently Amended) The base unit of claim 25, wherein:
2 said base connector further includes a volume data input
3 connection for receiving of volume control data from the self-
4 contained, portable music player;

5 said pre-amplifier is further connected to said volume data
6 input connection and producing an amount of amplification
7 corresponding ~~thereto~~ to the volume control data.

1 27. (Original) The base unit of claim 25, wherein:
2 said base connector further includes a set of digital
3 connections for connection to a set of digital connections of the
4 self-contained, portable music player; and
5 said base unit further includes a disc drive connected to said
6 digital connections of said base connector capable of storing and
7 recalling digital data.

28. (Canceled)

1 29. (Previously Presented) The self-contained, portable music
2 player of claim 1, wherein:
3 said base connector further includes a digital data bus
4 connection for bidirectional data exchange; and
5 said data processor being further connected to said digital
6 data bus connection of said base connector for communicating
7 station selection data corresponding to inputs received from said
8 input/output device via said digital data bus connection to the
9 base unit.

1 30. (Previously Presented) The music system of claim 13,
2 wherein:
3 said self-contained, portable music player wherein
4 said first base connector further includes a first
5 digital data bus connection for bidirectional data exchange
6 and
7 said data processor being further connected to said first
8 digital data bus connection of said base connector for

9 communicating station selection data corresponding to inputs
10 received from said input/output device via said first digital
11 data bus connection to the base unit;
12 said base unit wherein
13 said second base connector further includes a second
14 digital data bus connection for connection to said first
15 digital data bus connection for receiving digital data
16 including station selection data, and
17 said tuner being connected to said second digital data
18 bus connection and further selecting a station corresponding
19 to said station selection data.

1 31. (Previously Presented) The base unit of claim 25, wherein:
2 said base connector further includes a digital data bus
3 connection for receiving digital data including station selection
4 data; and
5 said tuner being connected to said digital data bus connection
6 and further selecting a station corresponding to said station
7 selection data.

1 32. (New) The music system of claim 14, wherein:
2 said base unit includes no volume control input.

1 33. (New) The base unit of claim 26, wherein:
2 said base unit includes no volume control input.

1 34. (New) The music system of claim 30, wherein:
2 said base unit includes no station selection input.

1 35. (New) The base unit of claim 31, wherein:
2 said base unit includes no station selection input.

1 36. (New) A self-contained, portable music player comprising:
2 a rechargeable battery pack for powering the music player;
3 an input/output device including at least a keypad for
4 receiving user inputs and a display;
5 a memory capable of storing digital music in at least one
6 compressed digital format;
7 a data processor connected to said input/output device and
8 said memory, said data processor programmed to decompress said
9 digital music into uncompressed digital music samples, said data
10 processor further programmed in cooperation with input/output
11 device whereby a user may enter volume control data via said
12 keypad;
13 an audio coder-decoder connected to said data processor for
14 receiving said uncompressed digital music samples from said data
15 processor and converting said uncompressed digital music samples
16 into analog music;
17 a headset connector connected to said audio coder-decoder for
18 supplying said analog music to an external headset earphone; and
19 a base connector including
20 a power connection connected to said rechargeable battery
21 pack capable of receiving charging power from an external base
22 unit,
23 an analog output connection connected to said audio
24 coder-decoder for supplying said analog music to an external
25 base unit for amplification and reproduction via speakers, and
26 a volume control data output connection for transmission
27 of volume control data from the self-contained, portable music
28 player to an external base unit; and
29 wherein the self-contained, portable music player operates in
30 a portable mode disconnected from a base unit and powered
31 by said rechargeable battery pack, wherein a user may listen

32 to selected digital music stored in said memory via an
33 external headset earphone, and
34 in a base mode connected to a base unit via said base
35 connector and powered via said power connector, wherein a user
36 may listen to selected digital music stored in said memory via
37 speakers of an external base unit and control listening volume
38 via said volume control data.

1 37. (New) The self-contained, portable music player of claim
2 36, wherein:
3 said base connector further includes a station selection data
4 output connection; and
5 said data processor being further programmed in cooperation
6 with input/output device whereby a user may enter station selection
7 data via said keypad, said data processor being further connected
8 to said station selection data output connection of said base
9 connector for communicating station selection data corresponding to
10 inputs received from said input/output device via said station
11 selection output connection to the external base unit.

1 38. (New) A music system comprising:
2 a self-contained, portable music player including
3 a rechargeable battery pack for powering the music
4 player,
5 an input/output device including at least a keypad for
6 receiving user inputs and a display;
7 a memory capable of storing digital music in at least one
8 compressed digital format,
9 a data processor connected to said input/output device
10 and said memory, said data processor programmed to decompress
11 said digital music into uncompressed digital music samples,
12 said data processor further programmed in cooperation with

13 input/output device whereby a user may enter volume control
14 data via said keypad,
15 an audio coder-decoder connected to said data processor
16 for receiving said uncompressed digital music samples from
17 said data processor and converting said uncompressed digital
18 music samples into analog music,
19 a headset connector connected to said audio coder-decoder
20 for supplying said analog music to an external headset
21 earphone, and
22 a first base connector including
23 a first power connection connected to said
24 rechargeable battery pack capable of receiving charging
25 power from an external base unit,
26 a player analog output connection connected to said
27 audio coder-decoder for supplying said analog music, and
28 a volume control data output connection for
29 transmission of volume control data from the self-
30 contained, portable music player; and
31 a base unit including
32 a second base connector including
33 a second power connection for connection to said
34 first power connection,
35 an analog input connection for connection to said
36 player analog output connection of said first base
37 connector,
38 a volume control data input connection for
39 connection to said player volume control data output
40 connection of said first base connector,
41 a power source connected to said second power connection
42 for supplying recharging power for said rechargeable battery
43 pack,

44 a pre-amplifier having an input connected to said analog
45 input connection and an output, said pre-amplifier further
46 connected to said volume control data input connection and
47 producing an amount of amplification corresponding to the
48 volume control data,

49 a power amplifier having an input connected to said
50 output of said pre-amplifier and an output,

51 a speaker system connected to said output of said power
52 amplifier for reproducing sound corresponding to said output
53 of said power amplifier,

54 said base unit having no input for volume control; and
55 wherein the music system operates in

56 a portable mode wherein said self-contained, portable
57 music player is disconnected from said base unit and powered
58 by said rechargeable battery pack, wherein a user may listen
59 to selected digital music stored in said memory via an
60 external headset earphone, and

61 in a base mode wherein said self-contained, portable
62 music player is connected to said base unit via said first
63 base connector and said second base connector and powered from
64 said power source, wherein a user may listen to selected
65 digital music stored in said memory via speakers of an
66 external base unit and control listening volume via said
67 volume control data.

1 39. (New) The music system of claim 38, wherein:

2 said self-contained portable music player wherein

3 said first base connector further includes a station
4 selection data output connection, and

5 said data processor being further programmed in
6 cooperation with input/output device whereby a user may enter
7 station selection data via said keypad, said data processor

8 being further connected to said station selection data output
9 connection of said first base connector for communicating
10 station selection data corresponding to inputs received from
11 said input/output device via said station selection output
12 connection;
13 said base unit wherein
14 said second base connector further includes a station
15 selection data input connection for connection to said player
16 station selection data output connection of said first base
17 connector,
18 said base unit further including a tuner for receiving
19 and demodulating analog audio signals and connected to said
20 station selection data input connection of said second base
21 connector for selecting a station corresponding to said
22 station selection data; and
23 said base unit having no input for station selection.

1 40. (New) A base unit for use with a self-contained, portable
2 music player comprising:
3 a base connector including
4 a power connection,
5 an analog input connection for receiving an analog input,
6 a volume control data input connection for receiving
7 volume control data;
8 a power source connected to said power connection for
9 supplying recharging power for the self-contained, portable music
10 player;
11 a pre-amplifier having an input connected to said analog input
12 connection and an output, said pre-amplifier further connected to
13 said volume control data input connection and producing an amount
14 of amplification corresponding to the volume control data;

15 a power amplifier having an input connected to said output of
16 said pre-amplifier and an output;
17 a speaker system connected to said output of said power
18 amplifier for reproducing sound corresponding to said output of
19 said power amplifier;
20 said base unit having no input for volume control.

1 41. (New) The base unit of claim 40, wherein:
2 said base connector further includes a station selection data
3 input connection for receiving station selection data;
4 said base unit further including a tuner for receiving and
5 demodulating analog audio signals and connected to said station
6 selection data input connection of said base connector for
7 selecting a station corresponding to said station selection data;
8 and
9 said base unit having no input for station selection.

1 42. (New) A self-contained, portable music player comprising:
2 a rechargeable battery pack for powering the music player;
3 an input/output device including at least a keypad for
4 receiving user inputs and a display;
5 a memory capable of storing digital music in at least one
6 compressed digital format;
7 a data processor connected to said input/output device and
8 said memory, said data processor programmed to decompress said
9 digital music into uncompressed digital music samples, said data
10 processor further programmed in cooperation with input/output
11 device whereby a user may enter station selection data via said
12 keypad;
13 an audio coder-decoder connected to said data processor for
14 receiving said uncompressed digital music samples from said data

15 processor and converting said uncompressed digital music samples
16 into analog music;
17 a headset connector connected to said audio coder-decoder for
18 supplying said analog music to an external headset earphone; and
19 a base connector including
20 a power connection connected to said rechargeable battery
21 pack capable of receiving charging power from an external base
22 unit,
23 an analog output connection connected to said audio
24 coder-decoder for supplying said analog music to an external
25 base unit for amplification and reproduction via speakers, and
26 a station selection data output connection for
27 transmission of station selection data from the self-
28 contained, portable music player to an external base unit; and
29 wherein the self-contained, portable music player operates in
30 a portable mode disconnected from a base unit and powered
31 by said rechargeable battery pack, wherein a user may listen
32 to selected digital music stored in said memory via an
33 external headset earphone, and
34 in a base mode connected to a base unit via said base
35 connector and powered via said power connector, wherein a user
36 may listen to selected digital music stored in said memory via
37 speakers of an external base unit and control station
38 selection of a tuner via said station selection data.

1 43. (New) A music system comprising:
2 a self-contained, portable music player including
3 a rechargeable battery pack for powering the music
4 player,
5 an input/output device including at least a keypad for
6 receiving user inputs and a display;

7 a memory capable of storing digital music in at least one
8 compressed digital format,

9 a data processor connected to said input/output device
10 and said memory, said data processor programmed to decompress
11 said digital music into uncompressed digital music samples,
12 said data processor further programmed in cooperation with
13 input/output device whereby a user may enter station selection
14 data via said keypad,

15 an audio coder-decoder connected to said data processor
16 for receiving said uncompressed digital music samples from
17 said data processor and converting said uncompressed digital
18 music samples into analog music,

19 a headset connector connected to said audio coder-decoder
20 for supplying said analog music to an external headset
21 earphone, and

22 a first base connector including

23 a first power connection connected to said
24 rechargeable battery pack capable of receiving charging
25 power from an external base unit,

26 a player analog output connection connected to said
27 audio coder-decoder for supplying said analog music, and

28 a station selection data output connection for
29 transmission of station selection data from the self-
30 contained, portable music player; and

31 a base unit including

32 a second base connector including

33 a second power connection for connection to said
34 first power connection,

35 an analog input connection for connection to said
36 player analog output connection of said first base
37 connector,

38 a station selection data input connection for
39 connection to said player station selection data output
40 connection of said first base connector,
41 a power source connected to said second power connection
42 for supplying recharging power for said rechargeable battery
43 pack,
44 a pre-amplifier having an input connected to said analog
45 input connection and an output,
46 a power amplifier having an input connected to said
47 output of said pre-amplifier and an output,
48 a speaker system connected to said output of said power
49 amplifier for reproducing sound corresponding to said output
50 of said power amplifier,
51 a tuner for receiving and demodulating analog audio
52 signals and connected to said station selection data input
53 connection of said second base connector for selecting a
54 station corresponding to said station selection data; and
55 said base unit having no input for station selection; and
56 wherein the music system operates in
57 a portable mode wherein said self-contained, portable
58 music player is disconnected from said base unit and powered
59 by said rechargeable battery pack, wherein a user may listen
60 to selected digital music stored in said memory via an
61 external headset earphone, and
62 in a base mode wherein said self-contained, portable
63 music player is connected to said base unit via said first
64 base connector and said second base connector and powered from
65 said power source, wherein a user may listen to selected
66 digital music stored in said memory via speakers of an
67 external base unit and control station selection of the tuner
68 via said station selection data entered via said portable
69 music player input/output device.

1 44. (New) A base unit for use with a self-contained, portable
2 music player comprising:
3 a base connector including
4 a power connection,
5 an analog input connection for receiving an analog input,
6 a station selection data input connection for receiving
7 station selection data;
8 a power source connected to said power connection for
9 supplying recharging power for the self-contained, portable music
10 player;
11 a pre-amplifier having an input connected to said analog input
12 connection and an output;
13 a power amplifier having an input connected to said output of
14 said pre-amplifier and an output;
15 a speaker system connected to said output of said power
16 amplifier for reproducing sound corresponding to said output of
17 said power amplifier;
18 a tuner for receiving and demodulating analog audio signals
19 and connected to said station selection data input connection of
20 said base connector for selecting a station corresponding to said
21 station selection data; and
22 said base unit having no input for station selection.